

CLAIMS

1. A data transmission method for transmitting a command of a predetermined format between one appliance and another appliance, which are capable of transmitting data bidirectionally over a predetermined transmission network, characterized in that

when said one appliance sends a first command for instructing a function block which is an object for control to said other appliance in said transmission network, the function block which is an object for control by a second command transmitted from said one appliance is determined to be a function block instructed by said first command.

2. The data transmission method according to claim 1 characterized in that said first command is instructed by posting a predetermined flag.

3. The data transmission method according to claim 1 characterized in that

said transmission network is a radio transmission network and said command is transmitted over the first channel secured within the radio transmission network.

4. The data transmission method according to claim 3 characterized in that

when transmission of stream data by said second command is instructed, transmission of the stream data is carried out through a second channel secured within said radio transmission network.

5. The data transmission method according to claim 1 characterized in that said transmission network is a network in

which appliances are connected through a predetermined bus line and said command is executed by asynchronous communication on said bus line.

6. The data transmission method according to claim 5 characterized in that

when transmission of stream data is instructed by said second command, transmission of the stream data is carried out by isochronous communication on said bus line.

7. A data transmission method for transmitting a command of a predetermined format and a response thereto between one appliance and another appliance, capable of transmitting data bidirectionally over a predetermined radio transmission network, characterized in that

when said one appliance transmits a first command for recognizing a function block which is an object for control to said other appliance in said transmission network, a function block corresponding to said other appliance is sent back as a response to the first command.

8. The data transmission method according to claim 7 characterized in that said first command is instructed by posting a predetermined flag.

9. A data transmission system for transmitting a command of a predetermined format between a first appliance and a second appliance capable of transmitting data bidirectionally over a predetermined transmission network, characterized in that

said first appliance comprises

a first communication means for communicating with said

second appliance over said network and

a first control means for generating a first command for instructing a function block which is an object for control within said second appliance and a second command for instructing execution of a predetermined function for the function block instructed by the first command, and

said second appliance comprises

a second communication means for communicating with said first appliance over said network and

a second control means for when said first command is received by said second communication means, memorizing a function block instructed with the command and when said second command is received, executing a function instructed by the second command for the memorized function block.

10. The data transmission system according to claim 9 characterized in that

said first control means creates the first command by posting a predetermined bit within the command.

11. A data transmission system for transmitting a command of a predetermined format and a response between a first appliance and a second appliance capable of transmitting data bidirectionally over a predetermined transmission network, characterized in that

said first appliance comprises

a first communication means for communicating with said second appliance through said network and

a first control means for generating a first command for recognizing a function block which is an object for control within

said second appliance, and

said second appliance comprises

a second communication means for communicating with said first appliance through said network and

a second control means for when said first command is received by said second communication means, transmitting a function block which is an object for control from said second communication means as a response.

12. A data transmission apparatus connected to a predetermined network, comprising

a communication means for communicating with another appliance bidirectionally through said network and

a control means for generating a first command for instructing a function block which is an object for control within a predetermined appliance connected over said network and a second command for executing a predetermined function for a function block instructed by the first command.

13. The data transmission apparatus according to claim 12 characterized in that said control means creates the first command by posting a predetermined bit within the command.

14. A data transmission apparatus connected to a predetermined network, comprising

a communication means for communicating with another appliance bidirectionally through said network and

a control means for generating a first command for recognizing a function block which is an object for control within a predetermined appliance connected through said network and

transmitting from said communication means.

15. The data transmission apparatus according to claim 14 characterized in that

said control means creates the first command by posting a predetermined bit within the command.

16. A data transmission apparatus connected to a predetermined network, characterized by comprising

a communication means for communicating with another appliance bidirectionally over the network and

a control means for, when said communication means receives a first command, memorizing a function block instructed by the command and when it receives a second command, executing a function instructed by the second command for the memorized function block.

17. The data transmission apparatus according to claim 16 characterized in that

said control means determines the first command by determining a predetermined bit within the command.

18. A data transmission apparatus connected to a predetermined network, characterized by comprising

a communication means for communicating with another appliance connected over said network bidirectionally and

a control means for, when it is determined that said communication means receives a command for recognizing a function block which is an object for control within a self appliance, transmitting a response having information indicating the set function block which is the object for control to a transmitting source of said command from said communication means.

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19. The data transmission apparatus according to claim 18
characterized in that

said control means determines that it is a command for recognizing said function block by determining a predetermined bit within the command.

20. (Added) The data transmission method as claimed in claim 1 wherein the first command is indicated in a pharmaceutical company dedicated data region.